

Special Permissions (Sticky Bit)

Sticky Bit: With this set, the users can only delete files or directories they own.

Use Case: There are 2 developers (**dev1** and **dev2**) part of dev team. They both share a directory **/shared2** on a RHEL system. We must find a way to restrict each of them to not able to delete files under **/shared2** directory which they do not own.

```
chmod o+t /shared2
```

```
chmod o-t /shared2
```

Example: Login as root

```
mkdir /shared2
```

```
ls -ld /shared2
```

```
chmod g+w /shared2
```

```
ls -ld /shared2
```

```
groupadd dev
```

```
chgrp dev /shared2
```

Sticky Bit (Contd.)

```
useradd -g dev dev1
```

```
useradd -g dev dev2
```

```
id dev1
```

```
id dev2
```

```
passwd dev1
```

```
passwd dev2
```

```
su - dev1
```

```
touch /shared2/dev1
```

```
su - dev2
```

```
rm /shared2/dev1
```

```
ls -l /shared2
```

```
ctrl +d (become root)
```

Sticky Bit (Contd2.)

chmod o+t /shared2

ls -ld /shared2

```
drwxrwxr-t. 2 root dev 6 May  2 05:55 /shared2
```

```
[root@ip-172-31-27-202 ~]# chmod o-x /shared2  
[root@ip-172-31-27-202 ~]# ls -ld /shared2  
drwxrwxr-T. 2 root dev 18 May  2 05:58 /shared2
```

su - dev1

touch /shared2/dev1

su - dev2

rm /shared2/dev1

rm: cannot remove '/shared2/dev1': Operation not permitted